

# MAGNA/CURE® UDC-3

Photopolymer dual cure direct emulsion for the broadest range of applications.

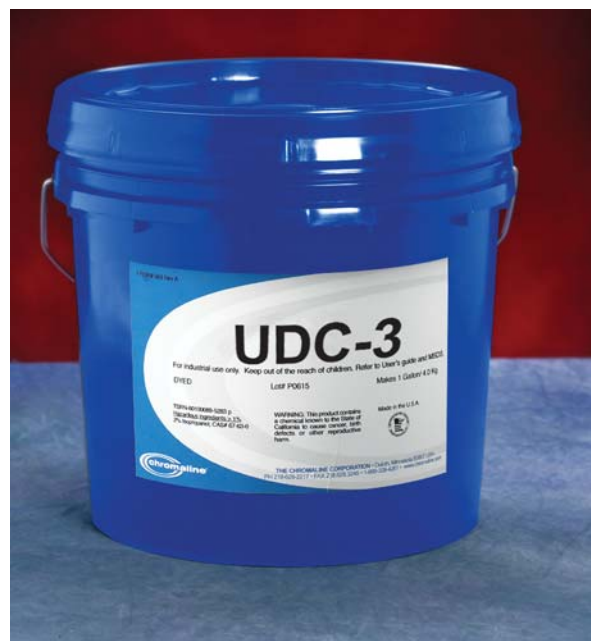
## MAGNA/CURE UDC-3

- Best line edge definition
- Best durability with all ink types
- Best dual cure emulsion on the market

Magna/Cure UDC-3 direct emulsion allows screen makers to obtain remarkable image quality and exceptionally durable stencils. UDC-3 emulsion is freeze/thaw stable for easy year-round shipping.

UDC-3 dual cure emulsion is designed for the widest range of imaging applications.

*UDC-3 is for use with water, solvent, UV and plastisol based inks. Available in dyed formulation only.*



### MATERIALS

#### REQUIRED

Exposure unit  
Washout sink  
Clean work area  
Scoop coater

#### RECOMMENDED

Drying cabinet  
Pressure washer  
Chromaline Exposure  
Calculator

### CHEMICALS

#### REQUIRED

Chroma/Clean™  
mesh degreaser

Chroma/Strip™  
screen reclaimer

#### RECOMMENDED

Chroma/Haze™  
haze remover

### SAFETY AND HANDLING

Avoid contact with skin and eyes. Refer to MSDS for further information.

### STANDARD SIZES

Quart, Gallon, 3.5 gallon, 50 gal. drum

### SPECIFICATIONS

Appearance: Blue  
Exposure: Fast (see reverse)  
Solids: 33.5% (after sensitized)  
Viscosity: 4,500 CPS (sensitized)  
Other: Available upon request

### STORAGE

**Shelf life** for sensitized UDC-3 emulsion emulsion is 3 to 4 weeks at room temperature (60 to 80°F).

**Freeze/Thaw stability.** UDC-3 emulsion is freeze/thaw stable. In the event that it is frozen, let thaw, thoroughly re-mix and use.

**Coated, unexposed screens** can be stored as long as one month in a clean, cool, dry and completely dark area.

**Expiration date.** Always check the expiration date on sensitizer bottle to assure freshness.



## Chromaline Screen Print Products

4832 Grand Ave. • Duluth, Minnesota 55807 • Tel: 218-628-2217 • Fax: 218.628.3245  
Web Site: [www.chromaline.com](http://www.chromaline.com) • E-mail: [sales@chromaline.com](mailto:sales@chromaline.com)

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## INSTRUCTIONS

### DEGREASE

Using Chroma/Clean™ mesh degreaser, work up a lather on both sides of mesh. Flood screen and frame thoroughly with water, then dry.

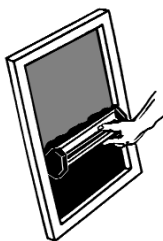


### MIX

Mix emulsion and sensitizer according to instructions on bottle. Let emulsion stand at least two hours before using. **FOR BEST RESULTS:** Always stir emulsion before use. Contents may settle over long periods of time. Gentle stirring will ensure that the emulsion is properly mixed.

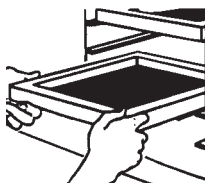
### COAT

Fill scoop coater with room temperature emulsion. Slowly apply first coat to print side. Then coat squeegee side with one to three coats depending upon thickness required. If thicker stencil is required, additional coats may be applied to print side after initial drying of stencil. Be sure to dry thoroughly between coats.



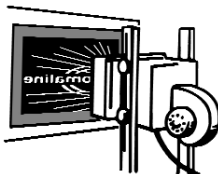
### DRY

Thoroughly dry screen in horizontal position, print side down, using a dark, clean drying cabinet. Temperature should not exceed 104°F (40°C).



### EXPOSE

Place emulsion side of photopositive in contact with print side of screen.



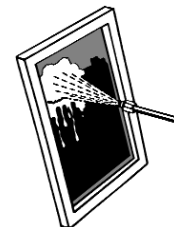
### DEVELOP

Gently spray both sides of screen with tepid water, wait 30 seconds then gently wash print side of the screen until image is fully open. Rinse both sides thoroughly. Dry screen completely and you are ready to print.



### RECLAIM

Apply Chroma/Strip™ screen reclaimer to both sides of screen. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let it work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with water, thoroughly flooding screen and frame.



### EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Use the Chromaline Exposure Calculator to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions.

### SUGGESTED MINIMUM

Exposure Guidelines

Exposure times were set for a 5KW unit at 42" from the frame. All screen mesh was orange in color. Screens were coated wet on wet, once on print side and twice on squeegee side.

Mesh	Time	mj/cm <sup>2</sup>
158 mesh	60 - 90 sec.	379 - 556
230 mesh	45 - 60 sec.	253 - 379
305 mesh	30 - 45 sec.	165 - 253

\* Exposure times were determined using the Chromaline UV Minder Radiometer/Dosimeter and CHROMALINE EXPOSURE CALCULATOR.

**AVOID FAILURE:** Dual cure emulsions have a very wide exposure latitude. Underexposed stencils often appear acceptable, but premature breakdown can occur on the press. When determining exposure speed, always overexpose your test stencil. Then, using the Chromaline Exposure Calculator, reduce exposure time until acceptable image quality is achieved. This will help assure good durability.

For Technical Service  
Call Toll Free 1-800-328-4261  
Email: [help@chromaline.com](mailto:help@chromaline.com)